

# High School to College and Career Pathway: Secondary

Area of Study: Information Technology Education



## Pathway: Information Support & Services Database Development & Administration

Middle School		State Requirements			High School Suggested Education Plan				College & Careers																										
7 <sup>th</sup> Grade	8 <sup>th</sup> Grade	Middle School	High School	9 <sup>th</sup> Grade Suggested	10 <sup>th</sup> Grade Suggested	11 <sup>th</sup> Grade Suggested	12 <sup>th</sup> Grade Suggested	Beyond High School																											
Language Arts 7 1.00	Language Arts 8 1.00	2.00	Language Arts 4.00	Language Arts 9 1.00	Language Arts 10 1.00	Language Arts 11 1.00	Language Arts 12 1.00	<p>There are a number of options for education and training beyond high school, depending on your career goals.</p> <ul style="list-style-type: none"> <li>&gt; Certificate</li> <li>&gt; Associate degree</li> <li>&gt; Bachelor's degree</li> <li>&gt; Professional degree</li> <li>&gt; On-the-job training</li> <li>&gt; Apprenticeship</li> <li>&gt; Military training</li> </ul> <p><b>Database Development &amp; Administration is:</b></p> <ul style="list-style-type: none"> <li>&gt; High skill</li> <li>&gt; High wage</li> <li>&gt; High demand</li> <li>&gt; Nontraditional for females</li> </ul> <p><b>Sample Occupations</b></p> <ul style="list-style-type: none"> <li>&gt; Database Administrator</li> <li>&gt; Database Architect</li> <li>&gt; Database Design Analyst</li> <li>&gt; Database Developer</li> <li>&gt; Database Engineer</li> <li>&gt; Information Scientist</li> <li>&gt; Information Technology Education Teacher</li> </ul> <p>For more information on salary projections, labor market demand, and training options, visit <a href="http://www.utahfutures.org">www.utahfutures.org</a>.</p>																											
Pre-Algebra 1.00	Elem. Algebra or Applied Math 1.00	2.00	Math 3.00	Geometry or Applied Math II 1.00	Intermediate Algebra 1.00	Computer Programming 1.00																													
Science .50	Science 1.00	1.50	Science 3.00	Earth Systems 1.00	Biological Science 1.00	Additional credit 1.00																													
Utah Studies .50	U.S. History I 1.00	1.50	Social Studies 2.50	Geography for Life .50	World Civilizations .50	U.S. History II 1.00	U.S. Government and Citizenship .50																												
P.E. 1.00	Health .50	1.50	P.E./Health 2.0	Participation Skills and Techniques .50	Fitness for Life .50 / Health Education .50 Lifetime Activities or Sport .50																														
The Arts .50	The Arts .50	1.00	Fine Arts 1.50	Fine Arts Courses 1.50																															
			Financial Literacy .50			Financial Literacy .50																													
Keyboarding .50			Computer Tech. .50	Computer Technology .50																															
CTE Intro 1.00		1.00	Career and Technical Education 1.00	<p><b>Career and Technical Education Recommended Pathway Courses</b></p> <p>(Students may select individual courses for exploration, or a complete Pathway for an in-depth focus.)</p> <p><b>CLASS AVAILABILITY MAY VARY AT YOUR HIGH SCHOOL</b></p> <table border="1"> <thead> <tr> <th>Course #</th> <th>Foundation Courses: (required)</th> <th>Credit</th> </tr> </thead> <tbody> <tr> <td>11.0301</td> <td>Database Development I</td> <td>1.00</td> </tr> <tr> <td colspan="3"><i>Choose one of the following courses:</i></td> </tr> <tr> <td>11.0201</td> <td>Computer Programming I</td> <td>1.00</td> </tr> <tr> <td>11.0301</td> <td>Database Development II</td> <td>1.00</td> </tr> <tr> <td colspan="3"><b>Elective Courses:</b></td> </tr> <tr> <td>11.0101</td> <td>Information Technology, Introduction</td> <td>.50</td> </tr> <tr> <td>11.0202</td> <td>Computer Programming II</td> <td>1.00</td> </tr> <tr> <td>32.0199</td> <td>Student Internship (Critical Workplace Skills)</td> <td>.50</td> </tr> </tbody> </table> <p>2.00 credits</p> <p>1.00 credit</p> <p>3.00 credits for completion</p> <p>Many Utah post-secondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional post-secondary Pathways for details.</p>					Course #	Foundation Courses: (required)	Credit	11.0301	Database Development I	1.00	<i>Choose one of the following courses:</i>			11.0201	Computer Programming I	1.00	11.0301	Database Development II	1.00	<b>Elective Courses:</b>			11.0101	Information Technology, Introduction	.50	11.0202	Computer Programming II	1.00	32.0199	Student Internship (Critical Workplace Skills)	.50
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<b>Workforce Trends</b> Computer systems analysts, database administrators, and computer scientists are expected to be among the fastest growing occupations through the year 2016.		Core Curriculum and elective requirements may vary district to district. Check with your school counselor.																																	
<b>Get the Facts</b> Information Technology workers are needed in nearly every industry. The demand for technically skilled workers is growing in almost every industry, not just in those considered high-tech.		Concurrent enrollment course offerings vary by school and district.																																	
		Foundation courses taken beyond the required credits can be used as elective credit.																																	

**Note:** For more information, talk to your school counselor.